

Recombinant Mouse Dclk1 Protein, Myc/DDK-tagged

Cat. No. Dclk1-2473M Lot. No. (See product label)

SPECIFICATION

Product Overview

Purified recombinant protein of mouse full-length doublecortin-like kinase 1 (Dclk1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.

Species

Mouse

Source

HEK293

Description

This gene encodes a member of the protein kinase superfamily and the doublecortin family. The protein encoded by this gene contains two N-terminal doublecortin domains, which bind microtubules and regulate microtubule polymerization, a C-terminal serine/threonine protein kinase domain, which shows substantial homology to Ca²⁺/calmodulin-dependent protein kinase, and a serine/proline-rich domain in between the doublecortin and the protein kinase domains, which mediates multiple protein-protein interactions. The microtubule-polymerizing activity of the encoded protein is independent of its protein kinase activity. The encoded protein is involved in several different cellular processes, including neuronal migration, retrograde transport, neuronal apoptosis and neurogenesis. This gene is up-regulated by brain-derived neurotrophic factor and associated with memory and general cognitive abilities. Multiple transcript variants generated by two alternative promoter usage and alternative splicing have been found, but the biological validity of some variants has not been determined. These variants encode different isoforms, which are differentially expressed and have different kinase activities.

Molecular Mass

84.6 kDa

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Dclk1 doublecortin-like kinase 1 [Mus musculus (house mouse)]
Official Symbol	Dclk1
Synonyms	DCLK1; doublecortin-like kinase 1; serine/threonine-protein kinase DCLK1; CLICK-I beta; doublecortin-like and CAM kinase-like 1; doublecortin and calcium/calmodulin-dependent protein kinase-like 1; Dcl; Dclk; Cpg16; Click-I; Dcamk11; AI836758; mKIAA0369; 1700113D08Rik; 2810480F11Rik
Gene ID	13175
mRNA Refseq	NM_019978
Protein Refseq	NP_064362
UniProt ID	Q9JLM8

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